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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/617,171 07/11/2003		Ki-Tag Jeong	1293.1902	2998	
21171	7590 12/05/2006		EXAMINER		
	HALSEY LLP	CHEN, TIANJIE			
SUITE 700 1201 NEW Y	YORK AVENUE, N.W.	ART UNIT	PAPER NUMBER		
	TON, DC 20005	2627			
		•	DATE MAILED: 12/05/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	1.	Application	ı No.	Applicant(s)					
Office Action Summary		10/617,171		JEONG, KI-TAG					
		Examiner		Art Unit					
		Tianjie Che	n	2627	·				
Period fo	The MAILING DATE of this communication or Reply	appears on the	cover sheet with the c	orrespondence ad	dress				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CFF SIX (6) MONTHS from the mailing date of this communication, period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by stately received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THI R 1.136(a). In no even in the control of the control of the control of the control	S COMMUNICATION t, however, may a reply be time expire SIX (6) MONTHS from the sation to become ABANDONE	J. nely filed the mailing date of this co D (35 U.S.C. § 133).	,				
Status									
1)	Responsive to communication(s) filed on 0s	5 October 2006							
/_	This action is FINAL . 2b) This action is non-final.								
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
٠,٣	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
	Claim(s) <u>1-23</u> is/are pending in the application. 4a) Of the above claim(s)is/are withdrawn from consideration								
	4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed.								
	☑ Claim(s) <u>1-23</u> is/are rejected. ☑ Claim(s)is/are objected to								
	7) Claim(s) is/are objected to. B) Claim(s) are subject to restriction and/or election requirement.								
		ia/or cicculori rec	quirentent.						
	on Papers								
9) The specification is objected to by the Examiner.									
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority ι	ınder 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:									
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
•	application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.									
Attachmen	t(s)								
_	e of References Cited (PTO-892)	4	l) Interview Summary	•					
	e of Draftsperson's Patent Drawing Review (PTO-948)		Paper No(s)/Mail Da Notice of Informal Pa	<u> </u>					
	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	6	6) Other:	аселс друшашин					

Art Unit: 2627

Final Rejection

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1-23 rejected under 35 U.S.C. 102(e) as being anticipated by Takashima (US 6,787,941).

Claims 1, 5, 6, and 20, Takashima cited a prior art in Figs. 8 and 10, which are attached in next page with added marks. The prior art shows an actuator of hard disk drive, having a base plate and a voice coil motor, to move a magnetic head to record and reproduce data with respect to a disk to a predetermined position on the disk, including: a suspension 6 supporting a slider 5, where the magnetic head is mounted; and an arm 4 included on the base plate 8 of the hard disk drive to pivot, an arm including the suspension at a leading end portion of the arm and a coil 7 of the voice coil motor coupled to a rear end portion of the arm, a set of magnets 15 (Fig. 8; column 1, line 22) arranged to be separated a predetermined distance from the coil (Fig. 8)/and normally above and below (Fig. 10; column 1; lines 18-19) a part of an effective portion of the coil during operation of the suspended actuator (for claim 20); wherein an area between the magnets is an area of the coil having an effective portion and an area (where the connection mold resides) outside of the magnets is an area of

Art Unit: 2627

the coil having an non-effective portion and, the coil is coupled to the rear end portion of the arm by an outer mold (See Figs. 8 and 10) formed to encompass an outer circumference of the coil, an inner mold is formed inside the coil, and a connection mold connecting the outer mold and the inner mold is formed on at least part of a surface of the area of the coil having the non-effective portion and not on the area of the coil having the effective portion; wherein the connection mold is only formed on the outer circumference of the coil.

Claim 6, Takashima's prior art also shows a hard disk drive that reproduces data stored in a disk or records data on the disk by using a magnetic head, the hard disk drive including: an actuator including an arm included on a base plate of the hard disk drive to pivot and a suspension at a leading end portion of the arm and supporting a slider on which the magnetic head is mounted; and a voice coil motor including a coil coupled to a rear end portion of the arm and a magnet arranged, which is inherently separated a predetermined distance from the coil and to face at least one of upper and lower surfaces of the coil, and pivoting the actuator in a predetermined direction by the interaction between current flowing through the coil and a magnetic field formed by the magnet.

Claims 2, 7, 12, and 17; Takashima's prior art further shows that the connecting mold is formed at an entire surface of the area of the coil having the non-effective portion.

Claims 3, 8, 13, and 18; Takashima's prior art further shows that the connection mold is formed in a middle portion along a lengthwise direction of the area of the coil having the non-effective portion.

Art Unit: 2627

Claims 4, 9, 14, and 19; Takashima's prior art further shows that the connection mold is formed at at least two positions along a lengthwise direction of the area of the coil having the non-effective portion.

Claims 5, 10, 15, 20; Takashima's prior art further shows that the connecting mold is also formed on the lower surface of the area of the coil having the non-effective portion of the coil (Fig. 10).

Claim 21, Takashima's prior art shows a subassembly of a hard disk drive, including: a voice coil motor including a coil that has a upper and lower surface with an area of the coil having a non-effective portion; a set of magnets arranged to be separated a predetermined distance from the coil, wherein an area between the magnets is an area of the coil having an effective portion and an area outside of the magnets is the area of the coil having the non-effective portion; and an inner mold formed inside said coil; an outer mold formed on an outer circumference of said coil; and a connection mold connecting said outer mold and said inner mold wherein the connection mold is formed both on said upper and said lower surface of the non-effective portion of the coil.

Claim 22, as described above, Takashima's prior art shows an actuator assembly of a hard disk drive, comprising: an arm, comprising: a voice coil, magnets positioned above and below a part of an area of the voice coil having an effective portion and an area outside of the magnets is an area of the voice coil having an non-effective portion; an outer mold holding the voice coil on an outside; an inner mold holding the voice coil on an inside; and a connection mold connecting the inner mold and the outer mold across the coil and is formed on at least portion of the area of the voice coil having the non-effective portion and not on the area of the voice coil having

Art Unit: 2627

the effective portion, wherein the connection mold is only formed on an outer circumference of the coil.

Claim 23, Takashima further shows in Fig. 10 attached in next page that the arm has a pivot, the voice coil has a side away from the pivot and the connection mold is located on the side away from the pivot.

Response to Arguments

- 2. Applicant's arguments filed 10/05/2006 have been fully considered but they are not persuasive.
 - As discussed during the interview held on 09/22/2006; the difference between the current Application and the prior art is: in Application's embodiment, the connection mold is formed on the distal end relative to the pivot center; and in Takashima (US 6,787,941)'s embodiment, the connection mold is formed on the end close to the pivot center. However, in current amendment, Applicant recites "wherein the connection mold is only formed on the outer circumference of the coil," and both current Application and prior art shows that "wherein the connection mold is only formed on the outer circumference of the coil," no matter it is o the distal end or near end; therefore, the prior art still reads on the amended claims. The rejection should maintain.

Art Unit: 2627

Conclusion

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tianjie Chen whose telephone number is 571-272-7570. The examiner can normally be reached on 8:00-4:30, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2627

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TIANJIE CHEN
PRIMARY EXAMINER